IN THE CLAIMS:

Listing of the Claims:

1. (Original) A diverter for a projectile, comprising:

a header assembly providing a mounting surface and support for a plurality of electrical leads;

a reactive semiconductor bridge mounted on the mounting surface of the header assembly and providing an electrical path for the electrical leads at a certain voltage across the bridge;

a diverter body supporting the header assembly and containing a prime, wherein the reactive semiconductor bridge and the prime define a gap; and

an end cap attached to the diverter body and containing a propellant, wherein the rapid burning of the propellant produces gases, which eject the end cap from the diverter body to produce a force to divert the projectile.

2. (Original) A diverter for a projectile, comprising:

a mounting surface with a plurality of conductive paths;

a header assembly providing support for a plurality of electrical leads, wherein one electrical lead connects to one of the plurality of conductive paths and another electrical lead connects to another one of the plurality of conductive paths;

a semiconductor bridge mounted on the mounting surface and providing along with the conductive paths an electrical path from one electrical lead to another electrical lead when a certain voltage is applied across the semiconductor bridge;

a diverter body supporting the header assembly and containing a prime, wherein the mounting surface is located at the exit end of the diverter body, and wherein the semiconductor bridge and the prime define an ignition source; and

a propellant beneath the prime which rapidly burns once the prime ignites such that the propellant produces gases producing a force out of the exit end of the diverter body to divert the projectile and a force retaining un-burnt propellant in the diverter body.

3. (New) The diverter of claim 1, further comprising a thermal closure that seals and holds the propellant in the end cap.

4. (New) The diverter of claim 3, wherein the thermal closure is an adhesive backed paper closure sealing and holding the propellant in place during assembly of the diverter.

5. (New) The diverter of claim 1, wherein the diverter body includes an undercut such that the mouth of the diverter body is smaller than the base to hold the prime in place.

6. (New) The diverter of claim 1, further comprising an electrical shunt providing an electrical short when attached to the plurality of electrical leads for safe handling of the diverter.

7. (New) The diverter of claim 1, further comprising shrink tubing for insulating each of the plurality of the electrical leads to prevent shorting to the diverter body.

8. (New) The diverter of claim 7, further comprising a potting material for retaining the shrink tubing and filling a gap between the shrink tubing and the diverter body.

9. (New) The diverter of claim 1, further comprising an adhesive bonding material between the end cap and the diverter body to bond the end cap to the diverter body until the time that the end cap is ejected.

10. (New) The diverter of claim 1, wherein the prime is zirconium potassium perchlorate and the propellant is a mixture of pistol powder and explosive ordnance material.

11. (New) The diverter of claim 2, further comprising a nozzle attached to the exit end of the diverter body to increase the impulse.

12. (New) The diverter of claim 2, wherein the mounting surface is a printed circuit board.

13. (New) The diverter of claim 2, further comprising an insulating sleeve for each of the plurality of the electrical leads to prevent shorting to the diverter body.

14. (New) The diverter of claim 2, wherein the prime is zirconium potassium perchlorate and the propellant is a mixture of pistol powder and explosive ordnance material.

15. (New) The diverter of claim 2, further comprising an end closure attached to the exit end of the diverter body.

16. (New) The diverter of claim 15, wherein the prime contacts the semiconductor bridge and the end closure is adjacent to the mounting surface.

17. (New) The diverter of claim 15, wherein the end closure is metal and crimped to the diverter body.

18. (New) The diverter of claim 2, wherein one of the plurality of electrical leads is tied to the diverter body.